DaimlerChrysler AG

Patent claims

1. A locking device (5) for locking a filler neck compartment cover of a vehicle that can be moved into an open position and into a closed position, having a locking element (20) for blocking the filler neck compartment cover in the closed position and having a servo drive (19) for displacing the locking element (20) from a release position into a blocking position, characterized in that the locking device (5) is designed as a preassembled, modular unit and can be fastened in the edge region of a mounting opening (3) provided in a body part (1) and serving to house a filler neck compartment (7) and has at least one retaining groove (41) which can be pushed onto a retaining flange (43), the retaining flange (43) being located in or on the mounting opening (3).

2. The locking device as claimed in claim 1, characterized in that the mounting opening (3) has a marginal cutout (45).

3. The locking device as claimed in claim 2, characterized in that the retaining flange (43) is formed on the marginal cutout (45).

4. The locking device as claimed in claim 3, characterized in that the retaining groove (41) is provided on a housing (33) of the filler neck compartment cover lifting means (21).

5. The locking device as claimed in claim 4, characterized in that the filler neck compartment cover lifting means (21) has at least two retaining webs (37, 39) arranged at a distance from one another and in that each of the retaining webs (37, 39) has a retaining groove (41).

6. The locking device as claimed in claim 5, characterized by an engagement opening (35) for a mating element on the filler neck compartment cover that interacts with the locking element (20).

7. The locking device as claimed in claim 6, characterized by a filler neck compartment cover lifting means (21) comprising a push-push mechanism.

8. The locking device as claimed in claim 7, characterized in that the servo drive (19) and the filler neck compartment cover lifting means (21) are themselves each designed as modular units and are preferably detachably connected to one another.

9. The locking device as claimed in claim 8, characterized in that, when in the mounted state, the filler neck compartment (7) engages into the free space between the retaining webs (37, 39), and in that the filler neck compartment (7) can be fastened to the filler neck compartment cover lifting means (21), in particular to the retaining webs (37, 39), and/or to the body part (1).